

IN THE CLAIMS

Please amend the claims to read as follows:

1. (Currently Amended) A computer, comprising:  
a memory; and  
a data structure to store a schema for a generic document, the data structure stored in the memory and including:  
a definition of a first element, the definition of the first element including an element value field; and  
a key identifier to identify a key value field to be used as a key in a data store.
2. (Original) A computer according to claim 1, wherein:  
the definition of the first element includes the key identifier as a property of the first element; and  
the key identifier identifies the element value field as the key value field.
3. (Original) A computer according to claim 1, wherein:  
the definition of the first element includes a definition of a first attribute of the first element, the definition of the first attribute including the key identifier; and  
the key identifier identifies the element value field as the key value field.
4. (Original) A computer according to claim 1, wherein the definition of the first element includes a definition of a second attribute, the definition of the second attribute including an attribute value field.
5. (Original) A computer according to claim 4, wherein:  
the definition of the second attribute includes the key identifier as a property of the second attribute; and  
the key identifier identifies the attribute value field as the key value field.

6. (Original) A computer according to claim 4, wherein:  
the definition of the first element further includes a definition of a third attribute of the first element, the definition of the third attribute including the key identifier; and  
the key identifier identifies the attribute value field of the second attribute as the key value field.

7. (Currently Amended) A computer according to claim 1, ~~further comprising wherein the data structure further includes:~~  
a definition of a second element, the definition of the second element including a second element value field; and  
a tree structure including the first element and the second element.

8. (Original) A computer according to claim 1, wherein the key identifier identifies the key value field as one of a primary key, a secondary key, and a foreign key for the data store.

9. (Original) A computer according to claim 8, wherein:  
the key identifier identifies the key value field as a foreign key for the data store; and  
the key identifier references a second data store.

10. (Currently Amended) A computer according to claim 1, wherein the data ~~structure contains-is operative to store~~ an eXtensible Markup Language (XML) schema.

11. (Currently Amended) A computer system, comprising:  
a data store to store a first generic document and to store a value for a first key value field, the value loaded from the first generic document; and  
a first schema applicable to the first generic document, the first schema including:  
a definition of a first element, the definition of the first element including an element value field;  
a first key identifier to identify a-the first key value field in the first generic document to be used as a key in a data store.

12. (Original) A system according to claim 11, wherein:  
the definition of the first element includes the first key identifier as a property of the first element; and

the first key identifier identifies an element value field of the first element as the first key value field.

13. (Original) A system according to claim 11, wherein:  
the definition of the first element includes a definition of a first attribute, the definition of the first attribute including the first key identifier; and

the first key identifier identifies an element value field of the first element as the first key value field.

14. (Original) A system according to claim 11, wherein the definition of the first element includes a definition of a second attribute, the definition of the second attribute including an attribute value field.

15. (Original) A system according to claim 14, wherein:  
the definition of the second attribute includes the first key identifier as a property of the second attribute; and

the first key identifier identifies the attribute value field as the first key value field.

16. (Original) A system according to claim 14, wherein:  
the definition of the first element further includes a definition of a third attribute, the definition of the third attribute including the first key identifier; and

the first key identifier identifies the attribute value field as the first key value field.

17. (Currently Amended) A system according to claim 11, wherein:  
the data store is operative to store a second generic document and to store a second value for a second key value field, the value loaded from the first generic document; and

the system further comprises a second schema applicable to the second generic document, the second schema including:

a definition of a second element, the definition of the second element including an element value field;

a second key identifier to identify a the second key value field in the second generic document to be used as a key in a data store.

18. (Original) A system according to claim 17, wherein:  
the first schema includes a first identifier for the first key value field;  
the second schema includes a second identifier for the second key value field; and  
the first identifier and the second identifier are the same identifier.

19. (Original) A system according to claim 11, wherein the data store is a Lightweight Directory Access Protocol (LDAP) data store.

20. (Original) A system according to claim 11, further comprising a parser to parse the schema.

21. (Previously Presented) A system according to claim 20, further comprising:  
the parser is operative to identify the first key value field in the schema; and  
a loader to load a value from the first key value field in the first generic document.

22. (Previously Presented) A system according to claim 21, wherein the data store further includes an index associated with the first generic document, the index storing a copy of the value from the first key value field in the first generic document.

23. (Original) A system according to claim 22, wherein the index is in a native format of the data store.

24. (Previously Presented) A system according to claim 21, wherein:  
the schema includes a definition of at least one of a second element and a fourth attribute;

the parser is operative to identify the second element or the fourth attribute;  
the loader is operative to load a second value from the second element or the fourth attribute in the first generic document; and  
the data store further includes a field to store the second value in a native format of the data store.

25. (Original) A system according to claim 20, wherein:  
the parser is operative to parse the schema into objects; and  
the system further comprises a definer to define a structure for the data store based on the objects.

26. (Previously Presented) A system according to claim 11, wherein:  
the first generic document is an eXtensible Markup Language (XML) document; and  
the first schema is an XML schema.

27-37. (Canceled)

38. (Previously Presented) A method for defining a data store in a computer, comprising:  
accessing a schema;  
locating an object defined in the schema as a key;  
defining a first data structure in the data store for the object;  
identifying the first data structure in the data store as a key data structure; and  
defining a second data structure in the data store for a generic document conforming to the schema.

39. (Original) A method according to claim 38, wherein defining a first data structure includes defining the first data structure in the data store for the object in a native format of the data store.

40. (Original) A method according to claim 38, wherein defining a second data structure includes:

parsing the schema into objects; and  
defining a data structure in the data store for each object.

41. (Original) A method according to claim 40, wherein defining a data structure in the data store for each object includes defining the data structure in the data store for each object in a native format of the data store.

42. (Previously Presented) A method according to claim 38, wherein:  
the generic document is an eXtensible Markup Language (XML) document; and  
the schema is an XML schema.

43. (Previously Presented) A method for defining a schema for a generic document in a computer, comprising:  
defining a first element in the schema, the first element including an element value field;  
and  
identifying a key value field in the schema to be used as a key in a data store.

44. (Original) A method according to claim 43, wherein:  
defining a first element includes assigning a property to the first element as the key; and  
identifying a key value field includes identifying the element value field as the key value field.

45. (Original) A method according to claim 43, wherein:  
defining a first element includes defining a first attribute of the first element, the first attribute identifying the first element as the key; and  
identifying a key value field includes identifying the element value field as the key value field.

46. (Original) A method according to claim 43, wherein defining a first element includes defining a second attribute for the first element, the second attribute including an attribute value field.

47. (Original) A method according to claim 46, wherein:  
defining a second attribute includes assigning a property to the second attribute as the key; and  
identifying a key value field includes identifying the attribute value field as the key value field.

48. (Original) A method according to claim 46, wherein:  
defining a second attribute includes defining a third attribute of the first element, the third attribute identifying the second attribute as the key; and  
identifying a key value field includes identifying the attribute value field of the second attribute as the key value field.

49. (Original) A method according to claim 43, wherein the schema is an XML schema.

50-54. (Canceled)

55. (Previously Presented) A computer-readable medium containing a program to define a data store, comprising:  
software to access a schema;  
software to locate an object defined in the schema as a key;  
software to define a first data structure in the data store for the object;  
software to identify the first data structure in the data store as a key data structure; and  
software to define a second data structure in the data store for a generic document conforming to the schema.

56. (Original) A computer-readable medium according to claim 55, wherein the software to define a second data structure includes:

software to parse the schema into objects; and

software to define a data structure in the data store for each object.

57. (Previously Presented) A computer-readable medium according to claim 55, wherein:

the generic document is an eXtensible Markup Language (XML) document; and

the schema is an XML schema.

58. (Previously Presented) A computer-readable medium containing a program to define a schema for a generic document, comprising:

software to define a first element in the schema, the first element including an element value field; and

software to identify a key value field in the schema to be used as a key in a data store.

59. (Original) A computer-readable medium according to claim 58, wherein:  
the software to define a first element includes software to assign a property to the first element as the key; and

the software to identify a key value field includes software to identify the element value field as the key value field.

60. (Original) A computer-readable medium according to claim 58, wherein:  
the software to define a first element includes software to define a first attribute of the first element, the first attribute identifying the first element as the key; and

the software to identify a key value field includes software to identify the element value field as the key value field.

61. (Original) A computer-readable medium according to claim 58, wherein the software to define a first element includes software to define a second attribute for the first element, the second attribute including an attribute value field.



62. (Original) A computer-readable medium according to claim 61, wherein:  
the software to define a second attribute includes software to assign a property to the second attribute as the key; and  
the software to identify a key value field includes software to identify the attribute value field as the key value field.

63. (Original) A computer-readable medium according to claim 61, wherein:  
the software to define a second attribute includes software to define a third attribute of the first element, the third attribute identifying the second attribute as the key; and  
the software to identify a key value field includes software to identify the attribute value field of the second attribute as the key value field.

64. (Original) A computer-readable medium according to claim 58, wherein the schema is an eXtensible Markup Language (XML) schema.